

BIPAC-5100/5100W (Wireless) ADSL Router

CLI Command Reference Manual

Disclaimer: This document is subject to change without notice and information was correct at time of writing. Some features outlined in this manual do not apply.

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# 1 Revision History

Date	Release	Description
April 8, 2003 1.0		File creation
July 8, 2003	1.1	Release version after review
October 6, 2003	tober 6, 2003 1.2 Add IP Alias and IP Policy Routing CI commands	

#### 2 References

- [1] ADSL Router Product Brief, version 0.2", October 2002
- [2] ITU-T Recommendation G.992.1 "Asymmetrical Digital Subscriber Line (ADSL) Transceivers"
- [3] ITU-T Recommendation G.994.1 "Handshake Procedures for Digital Subscriber Line (DSL) Transceivers"
- [4] ITU-T Recommendation G.997.1 "Physical Layer Management for Digital Subscriber Line (DSL) Transceivers"
- [5] ITU-T Recommendation I.361: "B-ISDN ATM Layer Specification".
- [6] ITU-T Recommendation I.363.5 (1996): "B-ISDN ATM Adaptation Layer Specification: Type 5 AAL".
- [7] ITU-T Recommendation I.432.5: "B-ISDN User-Network Interface Physical Layer Specification: 25600 kbit/s Operation".
- [8] ITU-T Recommendation I.610 (1998): "B-ISDN Operation and Maintenance Principles and Functions Abstract".
- [9] Internet Engineering Task Force RFC 2684, "Multiprotocol Encapsulation over ATM Adaptation Layer 5", D. Grossman, J. Heinanen, September 1999

#### 3 Abbreviations

AAL ATM Adaptation Layer

ADSL Asymmetric Digital Subscriber Line
AN-IWF Access Network Interworking Function

ATM Asynchronous Transfer Mode
ATU-C ADSL Terminal Unit – Central
ATU-R ADSL Terminal Unit – Remote
BLES Broadband Loop Emulation Service
B-NT Broadband Network Termination
CLASS Custom Local Area Signaling Service

CO Central Office

CO-IWF Central Office Interworking Function
CPE Customer Premises Equipment

CP-IWF Customer Premises Interworking Function

DSL Digital Subscriber Line
DSLAM DSL Access Multiplexer
DTMF Dual-Tone Multifrequency

E&M Ear and Mouth

FXO Foreign Exchange Office FXS Foreign Exchange Station

ISDN Integrated Services Digital Network

ISP Internet Service Provider

ITU-T International Telecommunication Union - Telecommunication Standardization Sector

IWF Interworking Function LAN Local Area Network

MIB Management Information Base

NT Network Termination

NTBBA Network Termination Broadband Access

PBX Private Branch Exchange
POTS Plain Old Telephony Service
PPP Point-to-Point Protocol

PSTN Public Switched Telephone Network

PVC Permanent Virtual Circuit

QoS Quality of Service

SNMP Simple Network Management Protocol

VAD Voice Activity Detection

VC Virtual Circuit WAN Wide Area Network

VMOA Voice and Multimedia over ATM

#### 4 General Description

This reference manual contains the descriptions of commands on Command Interpreter (CI) interface built-in on ADSL Router CPE chipset solution. The Product developed by Technologies is the evaluation board using ADSL Router CPE solution chipset to implement an ADSL WLAN Router/Modem. It provides high-speed Internet access for small/medium businesses through ADSL connection. It lowers the cost of data transmission service delivery for the small business subscribers.

The Product provides one 10/100BASE-T Ethernet port, one USB 1.1 port, and one PCMCIA WLAN card slot for connecting to user's local network. In addition, the Product provides bridging and IP routing to support a wide range of applications for high-speed Internet access. The Product will be interoperable with major vendors DSLAM solutions.

On the management interface, Wireless ASL Router provides a console interface which can be accessed through terminal emulator program on RS-232 serial interface or through telnet protocol on LAN/WAN physical interfaces. Wireless ASL Router also provides the web page configuration & management tool through HTTP protocol. In this manual, we describe the command interface on the console port in details.

#### **5 CI Command Reference**

#### 1.1 Command Interpreter Mode

The CI Commands can be divided into four different categories:

- System Related Commands
- TCP/IP Protocol Commands
- Ether Debug Commands
- WAN Debug Commands

#### 1.1.1. Command Syntax and General User Interface

CI has the following command syntax:

 $\begin{array}{l} \textbf{command} <& \textit{iface} \mid \textit{device} > \textbf{subcommand} \; [\textit{param}] \\ \textbf{command} \; \textbf{subcommand} \; [\textit{param}] \\ \textbf{command} \; \textbf{?} \mid \textbf{help} \\ \textbf{command} \; \textbf{subcommand} \; \textbf{?} \mid \textbf{help} \end{array}$ 

#### General user interface:

1	help	Shows the following commands and all major (sub)commands
2	exit	Use this command to exit from the CI Command environment

#### 1.1.2. System Related Commands

<ch-name>: enet0, mpoa00

Sys				
	adjtime			
	callhist	disp		display call history
		remove		remove entry from call history
	countrycode		<country code=""></country>	set country code
	cpu	disp		display CPU usage status
	date			display the system date
	domainme			display the domain name
	edit	<filename></filename>		edit a text file
	extraphnum			
		add	<set 1-3=""> &lt;1st num&gt; &lt;2nd num&gt;</set>	add extra outgoing phone numbers
		disp		display outgoing phone numbers
		node		set extra phone number to node n

	remove		remove extra outgoing pho number
	reset		system reset extra flag and mask
feature			display feature bit
hostname			display system hostname
log			
	clear		clear log error
	disp		display log error
	online	[on off]	turn on/off error log online display
socket			display socket status
stdio	ĺ	[second]	set terminal timeout value
syslog	İ		
	facility		choose what kind of facilit to be used
	mode		display syslog mode; enable/disable
	server		Identify the UNIX syslog server
	type		display syslog type
time			display timer cell
trcdisp	parse		monitor packets
trcl			
	call		display call event
	clear		clear trace
	disp		display trace log
	level	[#]	set trace level of trace log #:1-10
	online	[on off]	set on/off trace log online
	switch	[on off]	set system trace log
	type	  ditmap>	set trace type of trace log
trep			
-	chann	<name> [none incoming outgoing bothway]</name>	<pre><name>=enet0,mpoa00 set packet trace direction for a given channel</name></pre>
	create	<entry> <size></size></entry>	create packet trace buffer
	destroy		packet trace related commands
	disp		display packet trace
	switch	[on off]	turn on/off the packet trace
	udp	[sw addr port]	send packet trace to other system
•	brief		display packet content briefly
	parse	[[begin_idx], end_idx]	parse packet content

version			display RAS code and driversion
view		<filename></filename>	view a text file
wdog			
	switch	[on off]	set on/off wdog
	cnt	<value></value>	display watchdog counts value: 0-34463
romreset			
ddns	debug	<level></level>	enable/disable ddns servic
	display	<iface name=""></iface>	display ddns information
	logout	<iface name=""></iface>	restart ddns
	restart	<iface name=""></iface>	logout ddns
atsh			display debug information and hardware configuration
xmodemmode		[crc checksum]	
filter			

# 1.1.3. TCP/IP Protocol Commands

<hostid> format : xxx.xxx.xxx (ip Address)

<ether addr> format : xx:xx:xx:xx:xx

<iface> : enif0, wanif0 <gw> : gateway ip address

ip	address			display host ip address
	alias			Setting ip alias feature
	aliasdis			
	arp	status		Display arp table
		status		display ip arp status
	dhcp <iface name=""></iface>			set dhcp configuration
		client	release	release DHCP client IP
			renew	renew DHCP client IP
		status		display iface DHCP information iface-name: enif1, enif0
	dns			
		query		
		stats	[disp clear]	display or clear dns statistics
	httpd			
	icmp			
		status		display icmp statistic counter

	discovery	<iface name=""> [on off]</iface>	turn on off icmp router discovery response
ifconfig			display ifconfig
ping		<hostid></hostid>	ping remote host
route			
	add	<dest addr="">[/<bits>] <gateway> [<metric>]</metric></gateway></bits></dest>	add route
	addprivate		add private route
	addiface		
	drop	<host address=""> [/bits]</host>	drop a route
	status		display routing table
routep	help		display the ip policy routi on-line help
	policy		display policy routing list
	create	<pol><policy no=""> <name></name></policy></pol>	create a policy routing
	delete	<policy no=""></policy>	delete a policy routing
	rule	<policy no=""></policy>	display rule in a policy routing
	set		set a rule in a policy routing
	apply	[lan wan] <lan interface wan interface&gt;</lan 	apply policy routing to lar or wan interface
	cancel	[lan wan] <lan interface wan interface&gt;</lan 	cancel a policy routing fro lan or wan interface
status			display ip statistic counter
udp	status		dump UDP statistics and control blocks
rip			
tcp			
	status		display TCP statistic counters
tftp			
xparent		<join> <iface1>[<iface2>]</iface2></iface1></join>	join iface2 to iface1 group
		                   	break iface to leave ipxparent group
tredir			
igmp	debug		set igmp debug level
	forwardall	[on off]	turn on/off igmp forward all interfaces flag
	querier	[on off]	turn on/off igmp stop que flag
	iface		
		<iface> grouptm <timeout></timeout></iface>	set igmp group timeout
		<iface> interval <interval></interval></iface>	set igmp query interval
İ		<iface> join <group></group></iface>	join a group on iface

		<iface> leave <group></group></iface>	leave a group on iface
		<iface> query</iface>	send query on iface
		<iface> rsptime [time]</iface>	set igmp response time
		<iface> start</iface>	turn on of igmp on iface
		<iface> stop</iface>	turn off of igmp on iface
		<iface> ttl <threshold></threshold></iface>	set ttl threshold
		<iface> v1compat [on off]</iface>	turn on/off v1compat on iface
	robustness	<num></num>	set igmp robustness variable
	status		dump igmp status
pr			

lan	index	<lan no=""></lan>	Set lan interface
	active	<yes no></yes no>	Active the lan interface or not
	ipaddr	<ipaddr> <netmask></netmask></ipaddr>	Set ip address and network mask to lan interface
	rip	<none in out both> <rip1 rip2b rip2m></rip1 rip2b rip2m></none in out both>	Set RIP to lan interface
	display		Display lan interface information
	clear		Clear lan interface information
	save		Save lan interface information

# 1.1.4. Bridge Commands

bridge			
	cnt	disp	display bridge route counter
		clear	clear bridge route counter
	stat	disp	display bridge route packet counter
		clear	clear bridge route packet counter

# 1.1.5. Ether Debug Commands

<ch-name>: enet0, mpoa00

ether				
	config			display Ethernet dirver configuration information
	driver			
		cnt	disp <ch-name></ch-name>	display ether driver counters

	status	<ch-name></ch-name>	ch-name: enet0, enet1
	config		
version			

#### 1.1.6. USB Commands

<ch-name> : enet0, mpoa00

usb			
	version		display usb support version
	address		display the usb device address
	config		display the usb configuration
	cnt		
		disp	display the usb endpoint counter
		clear	clear the usb endpoint counter
	debug		enable or disable the debug message
	reset		reset the USB connection

Note: USB related commands only be supported in USB model.

# 1.1.7. Show Commands

<ch-name>: enet0, mpoa00

show			
	wan		
		help	show the help contents
		node	show the status of wan in specific remote node
		adsl	show the configuration and setting that related to the adsl
	lan		show the lan configuration status
	community		show the community/SNMP configuration status
	channel		
		disp	show the channel status, configuration and counter
		clear	show the channel status, configuration and clear the counter
	all		show all information about the system

# 1.1.8. Set Commands

<ch-name>: enet0, mpoa00

set				
	cpe		set the configuration related to the syte	m
		hostname	Set the system hostname	
		message	Set the router cpe message	

	iproute	switch the cpe router in ip mode (on/off)
	bridge	switch the cpe router in bridge mode (on/off)
wan		
	help	Display the help contents
	node	Set wan remote node configuration
	clear	Clear or delete a remote node
	enable	Enable a specific remote node
	disable	Disable a specific remote node
	encap	Set remote node's encapsulation
	mux	Set remote node's multiplexing
	vpi	Set remote node's vpi value
	vci	Set remote node's vci value
	wanip	Set remote node's wan ip (static/dynamic)
	remoteip	Set wan remote ip
	bridge	Set remote node to bridge mode
	iproute	Set remote node to ip route mode
	sua	Set wan sua (on/off)
	rip	Set wan rip mode
	multicast	Set wan multicast mode
	ppp	Set ppp configuration
	save	Save wan configuration setting
	exit	Save wan configuration setting
	adsl	Set the configuration and setting that related to the adsl
lan		
	ipaddr	set lan IP address
	rip	set RIP mode
	multicast	set lan multicast mode
	dhcp	set lan dhcp feature
	relayipaddr	set lan relay IP address
	dhcppool	set lan ip dhcp and pool value
	dhcpleasetime	set lan dhcp lease time
	dhcpdns	set dns on dhcp feature
community		set the router commnunity configuration
baudrate		set the router's baudrate
reboot		reset the system

# 1.1.9. WAN on-line command for analysis

wan adsl chandata	check ADSL channel status

wan adsl close	close ADSL line
wan adsl coding	display ADSL line coding
wan adsl defbitmap	check ADSL defect bit map table
wan adsl open	open ADSL line
wan adsl opencmd gdmt	set ADSL operation mode at G.DMT
wan adsl opencmd glite	set ADSL operation mode at G.Lite
wan adsl opencmd multimode	set ADSL operation mode at multimode
wan adsl opencmd t1.413	set ADSL operation mode at ANSI T1.413 Issue 2
wan adsl openmode	check ADSL sync up mode
wan adsl reset	reset ADSL line connection
wan adsl status	check ADSL line status
wan adsl version	show adsl ANSI T1.413 version number
wan adsl vendorid	show adsl ANS T1.413 vendor id
wan adsl utopia	show adsl UTOPIA interface information
wan adsl nearituid	show adsl G.DMT/G.Lite near-end ITU vendor id
wan adsl farituid	show adsl G.DMT/G.Lite far-end ITU vendor id
wan adsl cellcnt	show adsl UTOPIA cell counters
wan adsl defectcheck	set adsl defect check turn on/off
wan adsl txgain	set adsl transmission gain value
wan adsl targetnoise	set adsl target noise margin
wan adsl txfilter	set adsl transmission filter
wan adsl setrvid	set near-end vendor id
wan adsl txtones	set adsl transmission start/stop tone number
wan adsl snroffset	set adsl SNR margin offset
wan adsl errorsecond	set/show adsl error seconds information
wan adsl diag	show adsl diagnostic information
wan adsl watchdog	set adsl watch dog turn on/off
wan adsl fwversion	show adsl firmware version number
wan adsl uptime	show adsl uptime
wan hwsar clear	clear SAR statistic information
wan hwsar disp	display SAR statistic information
wan hwsar sendoam	send ATM OAM cell
wan adsl perfdata	analyze line performance on ADSL
wan adsl linedata far	show far end ADSL line/noise status
wan adsl linedata near	show near end ADSL line/noise status
wan addi inicata near	Show hour one rapper mic/noise status

# **1.1.10.** WLAN command for analysis

wlan essid	set the name of network
wlan chid	set the channel configuration
wlan display	Show the wlan configuration settings
wlan load	Load the previous saved configuration
wlan save	Save the configuration
wlan clear	Clear the current settings to zero

wlan filter	Activate the filter set
wlan debug	Turn on / off the debug error message
wlan version	Show the wlan firmware version
wlan reset	Reset the wlan system
wlan association	Show the current list of clients join the service
wlan scan	Scan the available channel on the networks
wlan channel	Turn on / off wlan data TX/RX

Note: WLAN related commands only be supported in WLAN model.

# 6 Command Listing

#### 1.1 sys adjtime

#### Description

There is no Real Time Chip (RTC) in the router, so there is a software mechanism to set the time manually or get the current time and date from an external server when you turn on your Router. So you can enter the time manually but each time the system is booted, the time and date will be reset to 2000/01/01 00:00:00.

Command Syntax

sys adjtime yyyy/mm/dd

# 1.2 sys callhist display

Description

Use this command to display information about past incoming and outgoing calls.

# 1.3 sys callhist remove

Use this command to remove information about past incoming and outgoing calls. Description

Command Syntax sys callhist remove <index>

> **Parameters** Name Description index Index number

#### 1.4 sys countrycode

#### Description

In voice communications, the 1,2 or 3-digit number that precedes the national terminal number in the network user address (for public networks). Use this command to show and set the country code according to each local code.

#### sys countrycode [countrycode]

#### Command Syntax

#### **Parameters**

#### Country Code Country Austria 233 244 Australia 248 Belgium Czech Republic 246 Denmark 252 Finland 240 Germany 237 247 Greece Holland 253 Hong Kong 242 229 Hungary 234 Japan Malaysia 241 243 New Zealand 255 North America Norway 245 Poland 231 Singapore 241 Slovakia 228 South Africa 254 Sweden 250 Switzerland 251 United Kingdom 249

Field	Description
Country code ()	shows the defined country code

# 1.5 sys cpu display

Description

Use this command to display the percentage of cpu utilization

sys cpu display

Command Syntax

CPU Usage Status: baseline 262446 ticks

sec	ticks	util	sec	ticks	util
0	260657	0.68	1	260799	0.62
2	261653	0.30	3	261519	0.35
4	261611	0.31	5	261653	0.30
6	261612	0.31	7	261673	0.30
8	261625	0.31	9	261651	0.30
:	:	:	:	:	:
61	261611	0.31	62	261647	0.30

Field	Description
sec	Second (0~62)
ticks	Counter of ticks
util	Percentage of cpu utilization
baseline	Compared number of ticks

Description

Use this description to show the current date

Command Syntax

sys date [year/month/date]

**Parameters** 

Name	Description
Year	shows current system year
Month	shows current system month
Date	shows current system date

Current date is Thu 1970/01/01

Field	Description
1970/01/01	Current system date is Jan 1, 1970

#### 1.7 sys domainname

#### Description

The unique name that identifies an internet site. Domain names always have two more parts, separated by dots. The part of the left is the most specific, and the part on the right is the most general. Use this command to display the domain name of the system.

sys domainname

#### Command Syntax

Domain name: xxxxxxxx

Field	Description
XXXXXXXX	The system domain name

# 1.8 sys edit

#### Description

Use this command to edit and setup the configuration file autoexec.net that runs as the system started. The autoexec.net file contains the command that user can configure and wish to execute when the system started.

sys edit autoexec.net

#### Command Syntax

#### **Parameters**

Command	Description
q(uit)	close the editor without saving
x(save & exit)	close the editor after saving
i(nsert after)	insert a line command
d(elete)	delete a certain command line
r(eplace)	replace a certain command line
n(ext)	view next command line

Edit cmd : q(uit) X(save &exit) i(insert after) d(elete) r(eplace) n(next)

#### Output field description

command line command line command line

ı

EOF

Field	Description
Command line	CI command
EOF	End Of File, press q to exit

# 1.9 sys extraphnum add

Description

Use this command to add extra outcalling phone numbers into your ATU-R.

Command Syntax

sys extraphnum add <set 1-3> <1st ph.num> [2nd ph.num]

**Parameters** 

Name	Description
<set 1-3=""></set>	Number set (max.3)
1 st ph.num	Fisrt phone number
2 nd ph.num	Second phone number

# 1.10 sys extraphnum display

Description

Use this command to display extra outcalling phone

numbers into your ATU-R.

Command Syntax

sys extraphnum display

Output field description

Extra Outcalling Phone Numbers Node: 256 Flag: 1

<0> <1>

<5>

Field	Description
256	Remote Node
1	Flag
<0> <5>	No of set

# 1.11 sys extraphnum node

**Description** Use this command to set all extend phone numbers to

remote node <num>

sys extraphnum node <num>

Command Syntax

	Name	Description
Parameters	<num></num>	Specify the node number

# 1.12 sys extraphnum remove

Use this command to remove extra outcalling phone numbers of a certain set from your ATU-R. Description

sys extraphnum remove <set 1-3> Command Syntax

**Parameters** 

Name	Description
<set 1-3=""></set>	Specify number of set that wish to remove

# 1.13 sys extraphnum reset

**Description** Use this command to reset all extra phone numbers and

node

sys extraphnum reset

Command Syntax

# 1.14 sys feature

Description

Use this command to display router's Feature-Bit Information

Command Syntax

sys feature

Output field description

IPX : yes IP ONLY : no AUI : no

AB ADAPTER : no IDSL ONLY: no IDSL: no

INTERNAL HUB: no

Field	Description
IPX	IPX information
IP Only	IP only information
AUI	AUI connector information
AB Adapter	
IDSL Only	
IDSL	
Internal Hub	

# 1.15 sys hostname

**Description** Use this command display the system hostname

Command Syntax

sys hostname

Output field description

XXXXXXX

Field Description

XXXXXXX Router's hostname

# 1.16 sys log clear

Description

The router would record any errors happened in the system with extra information. Use this command to clear or delete the error logs recorded in the system

sys log clear

Command Syntax

# 1.17 sys log disp

Description

The router would record any errors happened in the system with extra information. Use this command to display the error logs recorded in the system

sys log disp

Command Syntax

Output field description

0 Thu Jan 1 00:00:49 1970 PPO6 WARN MPOA Link Down 1 Thu Jan 1 00:02:23 1970 PPO6 WARN MPOA Link Up

9 Thu Jan 1 01:03:45 1970 PPO6 WARN MPOA Link Down Clear Error Log (y/n) :

Field	Description
0,1,2,3,	Error Logs Line numbers
Date	Error Logs date and time
Status	Warning or Information
Log	System Log (connection or jobs)
Clear	Ask whether user wish to clear the error log

# 1.18 sys log online

Description

Use this command to display or set error log online display

switch

Command Syntax

sys log online [0|1]

**Parameters** 

Name	Description
0	Switch off the errorlog online
1	Switch on the errorlog online

Output field description

sys> sys log online errorlog online: off sys> sys log online 1 sys> sys log online errorlog online: on

# 1.19 sys socket

•						
Description	Use t	his comr	nand to d	lisplay system s	socket info	ormation
Command Syntax	sys s	ocket				
Outoput field description	sys>s S# 8192 8193 8194 8195 8196 8197	Type TCP TCP Raw IP UDP UDP TCP	PCB 6969ac 696ac0 6c85a0 0 6c87dc 696bd4	Remote Sock.	Owner 1b11cc 1b129c 1b1130 1b05d0 1b15a8 1b1234	PP0b PP0d PP09 PSSV PP0f PP0c

# 1.20 sys stdio

Description

**Parameters** 

The system automatically log out if idle for five minutes (default setting). Use this command to set the system idle

timeout in minutes.

sys stdio [minutes]

Command Syntax

Name Description
[minutes] Input idle timeout

Current Stdio Timeout = X minutes

Output field description

Field	Description
X minutes	X = system idle timeout

# 1.21 sys syslog facility

### Description

Use this command to enter log facility that allows you to logthe message into different files in the server. There seven different local options. Please refer to your UNIX manual for more detail.

sys syslog facility <facility number>

### Command Syntax

<b>Parameters</b>	

Name	Description
facility number	<1~7> local logging options

# 1.22 sys syslog mode

Use this command to enable/disable syslog facility Description

sys syslog mode [y|n] sys syslog mode [1|0] Command Syntax

[1|0]

Name Description y (enable); n (disable) the syslog same as above 1 (enable); 0 (disable)the syslog **Parameters** [y|n]

# 1.23 sys syslog server

### Syslog Description

The router uses the UNIX syslog facility to log the CDR (Call Detail Record) and system messages to a syslog server.

....

Use this command to set syslog server IP address in the syslog facility to log CDR

### Description

sys syslog server [destination ip]

### Command Syntax

**Parameters** 

Name	Description
	Enter the IP Address of the server that will log the CDR (Call Detail Record) and system messages i.e,the syslog server.

#### 1.24 sys syslog type

**Description** Use this command to set the type of logs that are going to

be recorded. This command also can be used to

set/display syslog type flag.

sys syslog type [type]

Command Syntax

NameDesciptiontypeType of syslog (please refers Note)

**Parameters** 

syslog type: xxxxxxxx

#### Output field description

#### Note:

There are 4 types of syslog messages:

#### CDR Log (call message)

Format:

sdcmdSyslogSend( SYSLOG_CDR, SYSLOG_INFO, String );

String = board xx line xx channel xx, call xx, str

board = the hardware board ID

line = the WAN ID in a board

channel = channel ID within the WAN

call = the call reference number which starts from 1 and increments by 1 for each new call

str = C01 Outgoing Call dev xx ch xx (dev:device No. ch:channel No.)

C01 Incoming Call xxxxBps xxxxx (L2TP,xxxxx means Remote Call ID)

C01 Incoming Call xxxx (means connected speed) xxxxx (means Remote Call ID)

L02 Tunnel Connected(L2TP)

C02 OutCall Connected xxxx (means connected speed) xxxxx (means Remote Call ID)

C02 CLID call refused

L02 Call Terminated

C02 Call Terminated

#### **Packet Triggered Log**

Format:

sdcmdSyslogSend( SYSLOG_PKTTRI, SYSLOG_NOTICE, String );

String = Packet trigger: Protocol=xx Data=xxxxxxxxxx Protocol: (1:IP 2:IPX 3:IPXHC 4:BPDU 5:ATALK 6:IPNG) Data: We will send forty-eight Hex characters to the server

### Filter Log

Format:

sdcmdSyslogSend(SYSLOG_FILLOG, SYSLOG_NOTICE, String );

String = IP[Src=xx.xx.xx.xx Dst=xx.xx.xx prot spo=xxxx dpo=xxxx]S04>R01mD

IP[...] is the packet header and S04>R01mD means filter set 4 (S) and rule 1 (R), match (m) drop (D).

Src: Source Address

Dst: Destination Address

prot: Protocol (TCP,UDP,ICMP)

spo: Source port

dpo: Destination port

### **PPP** Log

Format:

sdcmdSyslogSend( SYSLOG_PPPLOG, SYSLOG_NOTICE, String ); String = ppp:Proto Starting / ppp:Proto Opening / ppp:Proto Closing / ppp:Proto Shutdown Proto = LCP / ATCP / BACP / BCP / CBCP / CCP / CHAP/ PAP / IPCP /IPXCP

# 1.25 sys time

**Description** Use this command to set and display system time.

Command Syntax sys time [hour[min[sec]]]

 Parameters
 Name
 Description

 [hour[min[sec]]]
 Set hour : min : sec

System time is now 05:43:51

#### 1.26 sys trcdisp parse

#### Packet Trace Description

The router packet traces records and analyzes packets running on LAN and WAN interfaces. It is designed for users with technical backgrounds who are interested in the details of the packet flow on LAN or WAN end of Router. It is also very helpful for diagnostics if you have compatibility problems with your ISP or if you want to know the details of a packet for configuring a filter rule. You can trace the packets in CI command mode via console or Telnet management. (please refers to note for further reference)

Description

Use this command to display the packet traced during the connection activity.

sys trcdisp parse

Command Syntax

**Parameters** 

Name	Description
parse	Parse the data of packet traced

51 00:12:53.442 ENETO-R[0060] PPPOE Discovery Stage

#### Output field description

[index] [timer/second][channel-receive/transmit][length] [protocol] [sourceIP/port] [destIP/port]

There are two ways to dump the trace:

- 1. Online Trace display the trace real time on screen
- 2. Offline Trace capture the trace first and display later

The details for capturing the trace are as follows:

#### **Online Trace**

Trace LAN Packet

- 1. Trace LAN packet
- 1.1 Disable to capture the WAN packet by entering: sys trcp channel mpoa00 none
- 1.2 Enable to capture the LAN packet by entering: sys trcp channel enet0 bothway
- 1.3 Enable the trace log by entering: sys trcp sw on & sys trcl sw on
- 1.4 Display the brief trace online by entering: sys trcd brief
- 1.5 Display the detailed trace online by entering: sys trcd parse

#### Example:

TC> sys trcp channel mpoa00 none

TC> sys trcp channel enet0 bothway

TC> sys trcp sw on

TC> sys trcl sw on

TC> sys trcd brief 22 00:15:42.939 ENET0-T[0064] PPP Section Stage 23 00:15:42.939 ENET0-R[0060] PPP Section Stage TC> sys trcd parse -----<0022>------LAN Frame: ENET0-XMIT Size: 64/ 64 Time: 00:15:42.939 Frame Type: PPP Section Stage Ethernet Header: Destination MAC Addr = 00A0C5292D4F Source MAC Addr = 00A0C5000103 PPPOE Section Stage: 0x8864 Version Type = 0x0011Code = 0x0000Session ID = 0x0002= 0x000CLength PPP Header: Protocol = 0x8021 (IPCP) IPCP Header: Code = 0x03 (Configure-Nak) Identifier = 0x04(4)Length = 0x000A (10)Option 3(IPAddress) = 0xC9010102 (201.1.1.2) RAW DATA: 0000: 00 A0 C5 29 2D 4F 00 A0-C5 00 01 03 88 64 11 00 ...)-O......d.. 0010: 00 02 00 0C 80 21 03 04-00 0A 03 06 C9 01 01 02 .....!........ -----<0023>-----LAN Frame: ENET0-RECV Size: 60/ 60 Time: 00:15:42.939 Frame Type: PPP Section Stage Ethernet Header:

Destination MAC Addr = 00A0C5000103 Source MAC Addr = 00A0C5292D4F PPPOE Section Stage: 0x8864

Version Type = 0x0011Code = 0x0000Session ID = 0x0002

Length = 0x000C

PPP Header:

Protocol = 0x8021 (IPCP)

IPCP Header:

Code = 0x01 (Configure-Request)

Identifier = 0x05 (5)Length = 0x000A (10)

Option 3(IPAddress) = 0xC9010102 (201.1.1.2)

**RAW DATA:** 

0000: 00 A0 C5 00 01 03 00 A0-C5 29 2D 4F 88 64 11 00 ......)-O.d..

0010: 00 02 00 0C 80 21 01 05-00 0A 03 06 C9 01 01 02 .....!........

#### 2. Trace WAN Packet

- 2.1 Disable the capture of the LAN packet by entering: sys trcp channel enet0 none
- 2.2 Enable to capture the WAN packet by entering: sys trcp channel mpoa00 bothway
- 2.3 Enable the trace log by entering: sys trcp sw on & sys trcl sw on
- 2.4 Display the brief trace online by entering: sys trcd brief
- 2.5 Display the detailed trace online by entering: sys trcd parse

#### **Example:**

TC> sys trcp channel enet0 none

TC> sys trcp channel mpoa00 bothway

TC> sys trcp sw on

TC> sys trcl sw on

TC> sys trcd brief

23 00:15:42.689 MPOA00-T[0064] PPPOE Discovery Stage

24 00:15:42.729 MPOA00-R[0064] PPPOE Discovery Stage

TC> sys trcd parse -----<0023>-----

```
MPOA Frame: MPOA00-XMIT Size: 64/ 64 Time: 00:15:42.689
Frame Type: PPPOE Discovery Stage
 Ethernet Header:
  Destination MAC Addr = 00A0C5000103
  Source MAC Addr
                      = 00A0C5292D4F
 PPPOE Discovery Stage: 0x8863
 Version Type
                   = 0x0011
  Code
                 = 0x0019
  Session ID
                 = 0x0000
                 = 0x0025
  Length
 PPPOE TAG:
  Service Name 0x0101 = nokia
  Host Uniq 0x0103
                     = 1001
  AC Cookie 0x0104
                      =
  End_of_List
                  = 0x0000
 RAW DATA:
  0000: 00 A0 C5 00 01 03 00 A0-C5 29 2D 4F 88 63 11 19 .......)-O.c..
  0010: 00 00 00 25 01 01 00 05-7A 79 78 65 6C 01 03 00 ...%....nokia...
  0020: 04 31 30 30 31 01 04 00-10 1A 69 D5 F2 D6 68 BF .1001....i...h.
  0030: 16 9A 97 03 0F F7 BB 9D-43 00 00 00 2B CF C6 3F .......C...+..?
-----<0024>-----
MPOA Frame: MPOA00-RECV Size: 64/ 64 Time: 00:15:42.729
Frame Type: PPPOE Discovery Stage
 Ethernet Header:
  Destination MAC Addr = 00A0C5292D4F
  Source MAC Addr
                    = 00A0C5000103
 PPPOE Discovery Stage: 0x8863
 Version Type
                   = 0x0011
  Code
                 = 0x0065
                 = 0x0002
  Session ID
  Length
                 = 0x0011
 PPPOE TAG:
  Service Name 0x0101 = nokia
  Host Unig 0x0103
                     = 1001
  End_of_List
                  = 0x0000
```

#### **RAW DATA:**

0000: 00 A0 C5 29 2D 4F 00 A0-C5 00 01 03 88 63 11 65 ...)-O......c.e

0010: 00 02 00 11 01 01 00 05-7A 79 78 65 6C 01 03 00 ......nokia...

0020: 04 31 30 30 31 00 00 00-00 00 00 00 00 00 00 .1001......

#### Offline Trace

#### 1. Trace LAN packet

- 1.1 Disable the capture of the WAN packet by entering: sys trcp channel mpoa00 none
- 1.2 Enable the capture of the LAN packet by entering: sys trcp channel enet0 bothway
- 1.3 Enable the trace log by entering: sys trcp sw on & sys trcl sw on
- 1.4 Wait for packet passing through the modem over LAN
- 1.5 Disable the trace log by entering: sys trcp sw off & sys trcl sw off
- 1.6 Display the trace briefly by entering: sys trcp brief
- 1.7 Display specific packets by using: sys trcp parse <from_index> <to_index>

#### 2. Trace WAN packet

- 2.1 Disable the capture of the LAN packet by entering: sys trcp channel enet0 none
- 2.2 Enable the capture of the WAN packet by entering: sys trcp channel mpoa00 bothway
- 2.3 Enable the trace log by entering: sys trcp sw on & sys trcl sw on
- 2.4 Wait for packet passing through the modem over WAN
- 2.5 Disable the trace log by entering: sys trcp sw off & sys trcl sw off
- 2.6 Display the trace briefly by entering: sys trcp brief
- 2.7 Display specific packets by using: sys trcp parse <from_index> <to_index>

### 1.27 sys version

Description

Use this command to show the system firmware version, including RAS version,romRasSize, system up time, bootbase version, RAS CODE, RomFile Checksum

Command Syntax

sys version

Output field description

RAS version: V3.40(GJ.0)A1 | 05/15/2002

romRasSize: 1061514

system up time: 7:08:33 (273c08 ticks) bootbase version: V1 | 01/11/2002

RAS CODE: TC ATU-R Oct 04 2002 10:20:43

Romfile Checksum :d018

Field	Description
RAS version	Ras version and date created
romRasSize	Size of the Ras File
system up time	Duration of system up since restart
bootbase version	Bootbase version and date created
RAS CODE	Ras code and date created

#### Description

Use this command to view the configuration file autoexec.net content that run as the system started. The autoexec.net file contains the command that user can configure and wish to execute when the system started.

sys view autoexec.net

### Command Syntax

sys>sys view autoexec.net

Output field

sys errctl 0 sys trcl level 5

sys stdio 0

sys trcl type 1180

sys trcp cr 64 96

sys trcl sw off

sys trcp sw off

ip tcp mss 512 ip tcp limit 2

ip tcp irtt 65000 ip tcp window 2

ip tcp ceiling 6000

### 1.29 sys wdog switch

#### Description

Many network protocols use "watchdog" traffic to periodically check the availability of a DSL-to-LAN connection. This traffic can keep a connection open even when there is no other traffic, negating the benefits of ondemand dialing and bandwidth. Spoofing lets the router ignore the watchdog traffic and open a connection only when there is data to be transferred, thus saving thousands of dollars a month, especially over long-distance connections.

Use this command to switch on/off the watchdog function.

sys wdog switch [on|off] sys wdog switch [1|0]

#### Command Syntax

Name	Description
On ; 1	Switch on the watchdog function
Off; 0	Switch off the watchdogfunction

#### **Parameters**

sys>sys wdog switch watchDog: On

### Output field description

# 1.30 sys wdog cnt

### Description

When a user logs onto the computer, the internal timer in WatchDog starts counting down the user's time available. When the user runs out of time, WatchDog can either restart the system. Use this command to set and display the system watchdog counter value.

sys wdog cnt [value]

### Command Syntax

#### **Parameters**

Name	Description
Value	Wdog counter value (0~34463)
	Default : 180

### 1.31 sys romreset

Description

Use this command to restore default romfile /configuration

file. Current setting will be erased.

Command Syntax

sys romreset

**Output field Description** 

sys>sys romreset

Default Romfile reset...

System Restart(Console speed will be changed to 9600 bps)

Bootbase Version: V1 | 01/11/2002 15:23:37

RAM: Size = 8192 Kbytes DRAM POST: Testing: 4224K ....

### 1.32 sys atsh

Description

Use this command to display the debug information and

hardware configuration

Sys atsh

Command Syntax

Output field Description

sys>sys atsh

RAS version : V3.40(TN.1)a4 | 6/19/2003

romRasSize : 1162016

bootbase version : V3.40(TN.1)a3 | 6/10/2003

Product Model : 5100W

MAC Address : 00AABB012345

Default Country Code : FF
Boot Module Debug Flag : 00
RomFile Version : 36
RomFile Checksum : e30f
RAS F/W Checksum : 16cc

SNMP MIB level & OID : 060102030405060708091011....

Main Feature Bits : 86 Other Feature Bits :

### 1.33 sys ddns debug

### **DDNS** Description

Dynamic DNS (Domain Name System) allows you to update your current dynamic IP address with one or many dynamic DNS services so that everyone can contact you (in *NetMeeting*, *CU-SeeMe*, or other services). You can also access your FTP server or Web Site on your own computer using DNS-like address that will never change instead of using an IP address that changes each time of reconnection.

Use this command to enable or disable ddns service.

Description

sys ddns debug <0|1>

Command Syntax

Name	Description
0	Disable ddns service
1	Enable ddns service

**Parameters** 

sys>sys ddns debug DDNS debug = 1

Output field description

# 1.34 sys ddns display

Description

Use this command to show the dynamic DNS status

### Command Syntax

sys ddns display<iface name>

### **Parameters**

ivame		Description		
iface name	Inte	erface name (enif0, enif1,	enif 2)	
DDNS Status				
state	=	0, flags	=	0
pauseTime	=	0, timerID	=	0
startcnt	=	0, stopcnt	=	2
retrycnt	=	0, eventqcnt	=	0
socketID	=	-1,		
DomainName	=			
eMail Address	=			
update IP	=	192.168.1.23		
update time	=	00:00:00 Thu. Jan. 01, 1970		
retCode	=	good		
IPort	=	1026, rPort	=	0
username	=			
password	=			

### Output field description

### 1.35 sys ddns restart

#### Description

Use this command to trace if the login to the ddns server is pass successfully and to diagnostic if the ddns function works well. Enter this command after debugging the ddns. You should get some information regarding the login from the server on the screen. Success or fail, the server willtell you.

sys ddns restart <iface name>

### Command Syntax

Output field description

Name	Description
iface name	Interface name (enif0, enif1, enif 2)

#### **Parameters**

ifStartDDNS: ifp = 680960,option=0

ATU-R>EventDDNSInit: ifp = ,addr=227.160.0.0

eventDDNSInit: DDNS notactivated

eentddnsDDNSInit: state=0

# 1.36 sys ddns logout

**Description** Use this command to log out the ddns service.

Command Syntax sys ddns logout <iface name>

NameDescriptionParametersInterface name (enif0, enif1, enif 2 ...)

### 1.37 ip address

#### Description

Where you obtain your network number depends on your particular situation. If the ISP or your network administrator assigns you a block of registered IP addresses, follow their instructions in selecting the IP addresses and the subnet mask. If the ISP did not explicitly give you an IP network number, then most likely you have a single user account and the ISP will assign you a dynamic IP address when the connection is established.

In CI command, user can also have the chance to view the IP address. Use this command to display and set the IP address.

ip address [addr]

### Command Syntax

Na	me	Description
Add	lr	Enter new IP address to be set

**Parameters** 

ATU-R> ip address 140.113.2.34 (set) ATU-R>ip address 140.113.2.45

Output field description

ATU-R> ip address 140.113.2.45 (set)

### 1.38 ip alias

#### Description

In a typical environment, a LAN router is required to connect two local networks. The board supports to connect three local networks to the ISP or remote node, we call this function as 'IP alias'. In this case, an internal router is not required. For example, the network manager can divide the local network into three networks and connect them to the internet using Router's single user account. The Router supports three virtual LAN interfaces via its single physical Ethernet interface. There are three internal virtual LAN interfaces for the router to route the packets from/to the three networks correctly. They are enif0 for the major network, enif0:0 for the IP alias 1 and enif 0:1 for the IP alias 2.

Use this command to create a new alias for interface (Default existing aliases are enif0:0 and enif0:1)

#### ip alias <iface>

Name	Description		
iface	Alias interface (enif0:0 and enif0:1)		

#### Command Syntax

#### **Parameters**

# 1.39 ip aliasdis

Description

Use this command to enable or disable routing between alias interfaces.

Command Syntax

ip aliasdis <0|1>

**Parameters** 

	Name Description	
0 Disable routing between alias interfaces		
1 Enable routing between alias interfaces		Enable routing between alias interfaces

sys>ip aliasdis 0 Disable IP Alias Route = 0

Output field Description

# 1.40 ip arp status

#### Description

Address Resolution Protocol (ARP) is a protocol for mapping an Internet Protocol address to a physical machine address that is recognized in the local network. Use this command to show the (ARP) table.

ip arp status <iface>

### Command Syntax

### **Parameters**

Name	Description		
iface	Enter the iface name, if blank, the arp status		
	will show the default iface arp table		

received x badtype x bogus add x reqst in x replies x reqst out x cache hit 0 (0%) cache miss 2 (100%)

### Output field description

IP-addr	Туре	Time	e Addr	Stat	iface
XX.XX.XX	10MbEthernet	0	ff:ff:ff:ff:ff	43	Null
XX.XX.XX	10MbEthernet	0	ff:ff:ff:ff:ff	43	Null
Num of arp	entries= 2				

# 1.41 ip dhcp client release

### Description

DHCP (Dynamic Host Configuration Protocol, RFC 2131 and RFC 2132) allows individual clients to obtain TCP/IP configuration at startup from a server. Use this command to release the current ip setting in order to obtain a new or refresh the ip from the dhcp server.

ip dhcp <iface> client release

### Command Syntax

Name	Description
iface	Driver interface (enif0, enif0:1)

**Parameters** 

# 1.42 ip dhcp client renew

### Description

DHCP (Dynamic Host Configuration Protocol, RFC 2131 and RFC 2132) allows individual clients to obtain TCP/IP configuration at startup from a server. Use this command to renew or to get ip from the dhcp server after releasing the previous ip.

ip dhcp <iface> client renew

### Command Syntax

Name	Description
iface	Driver interface (enif0, enif0:1)

**Parameters** 

### 1.43 ip dhcp status

**Description** Use this command to show the dhcp status of the board.

Command Syntax ip dhcp <iface> status

**Parameters** 

Name	Description
iface	Driver interface (enif0, enif0:1)

### Output field description

DHCP on iface enif1 is client Hostname : Router. p Domain Name : p

Server IP address: 167.206.3.167 Client IP address: 67.b.c.d/21

DNS server: 167.206.3.167, 167.206.7.4, 67.b.c.1

Default gateway: 67.b.c.1
Lease time: 302395 seconds
Renewal time: 151195 seconds
Rebind time: 264593 seconds
Client State = 3, retry = 0
periodtimer = 1307, timer = 150181

flags = 2

Status:

Packet InCount: 17, OutCount: 2, DiscardCount: 15

# 1.44 ip dns query

Description

Use this command to set the dns query

Command Syntax

ip dns query parameters>

**Parameters** 

Name	Description	
address <ipaddr> [tm]</ipaddr>	resolve ip-addr to name	
	<ipaddr></ipaddr>	Ip address
	[tm]	timeout
debug <num></num>	enable dns d	lebug value
	<num></num>	Debug value
name <hostname> [tm]</hostname>	resolve name to ip-addr	
	<hostname></hostname>	Hostname
	[tm]	timeout
Status	display dns d	query status
Table	display dns c	query table

### 1.45 ip dns stats

Description

Use this command to display or clear dns statistic counters

Command Syntax

Output field Description

ip dns stats <parameters>

**Parameters** 

Nan	ne	Description	
clea	clear Display dns statistic counters		
disp Clear dns statistic counters		Clear dns statistic counters	

sys>ip dns stats disp

DNS Proxy Statistics

State: 0

Proxy Table Size: 16 Active DNS: 0.0.0.0 Primary DNS: 0.0.0.0 Secondary DNS: 0.0.0.0

Max Entry: 0 Timeouts: 0

Response Discards: 0 Request Discards: 0 Send Failures: 0 No DNS Entry: 0 Request Count: 0 Free Count: 0

# 1.46 ip httpd

Description

Use this command to set the web debug message.

Command Syntax

ip httpd debug <0|1>

**Parameters** 

Name	Description
0	Disable http debug
1	Enable httpd debug

ip httpd debug 1 ip httpd debug httpd debug: on

Output field description

### 1.47 ip icmp status

Description

Use this command to display the icmp service statistic

icmpOutAddrMasksReps

satus

Command Syntax

ip icmp status

Output field description

Below are the informations shown by the command:
icmpInMsgs icmpOutMsgs
icmpInErrors icmpOutErrors
icmpInDestUnreachs
icmpOutDestUnreachs
icmpOutTimeExcds

icmpInTimeExcds icmpOutParmProbs icmpInParmProbs icmpOutSrcQuenchs icmpInSrcQuenchs icmpOutRedirects icmpInRedirects icmpOutEchos icmpInEchos icmpOutEchoReps icmpInEchoReps icmpOutTimestamps icmpInTimestamps icmpInTimestampsReps icmpOutTimestampsReps icmpOutAddrMasks icmpInAddrMasks

icmpInAddrMaskReps

### 1.48 ip icmp discovery

Description

Use this command to set the icmp router discovery flag.

Command Syntax

ip icmp discovery <iface> <1|0>

**Parameters** 

Name	Description
iface	Driver interface (enif0, enif0:1,)
0	Disable ICMP router discovery
1	Enable ICMP router discovery

ip icmp discovery enif0 1 ip icmp discovery enif0 ICMP router discovery: on

### 1.49 ip ifconfig

**Description** Use this command to show the network interface

Command Syntax

ip ifconfig

ip if

Output field description enif0: mtu 1500

nit0: mtu 1500

inet 192.168.1.1, netmask 0xffffff00, broadcast 192.168.1.255

RIP RX:None, TX:None

InOctets	InUnicast	InMulticast
InDiscards	InErrors	InUnknownProtos
OutOctets	OutUnicast	OutMulticast
OutDiscards	OutErrors	

enif0:0: mtu 1500

 $inet\ 192.168.2.1,\ netmask\ 0xffffff00,\ broadcast\ 192.168.2.255$ 

RIP RX:None, TX:None

InOctets	InUnicast	InMulticast
InDiscards	InErrors	InUnknownProtos
OutOctets	OutUnicast	OutMulticast
OutDiscards	OutErrors	

enif0:1: mtu 1500

inet 192.168.3.1, netmask 0xffffff00, broadcast 192.168.3.255

RIP RX:None, TX:None

InOctets	InUnicast	InMulticast
InDiscards	InErrors	InUnknownProtos
OutOctets	OutUnicast	OutMulticast
OutDiscards	OutErrors	

wanif0: mtu 1500

inet 192.168.1.1, netmask 0x00000000, broadcast 255.255.255.255 RIP RX:None, TX:None

 InOctets
 InUnicast
 InMulticast

 InDiscards
 InErrors
 InUnknownProtos

 OutOctets
 OutUnicast
 OutMulticast

 OutDiscards
 OutErrors

Description

Use this command to ping any machine (with an IP address) on LAN or WAN.

Command Syntax

ip ping <host id>

**Parameters** 

Name	Description
host id	Remote machine IP address

lp ping 192.168.1.1

Resolving 192.168.1.1... 192.168.1.1

sent	Rcvd	rate	rtt	avg	mdef	max	min
1	1	100	0	0	0	0	0
2	2	100	0	0	0	0	0
3	3	100	0	0	0	0	0

### 1.51 ip route status

Description

Use the ip route status command to display IP routing table series.

Command Syntax

ip route status [iface]

**Parameters** 

Name	Description
iface	Driver interface (enif0, enif0:1,)

Output field description

 Dest
 FF
 Len
 Device
 Gateway
 Metric
 stat
 Timer
 Use

 192.168.1.0
 00
 24
 enet0
 192.168.1.1
 1
 041b
 0
 0

 192.168.2.0
 00
 24
 enet0
 192.168.2.1
 1
 041b
 0
 3

Field	Description
Destination	Destination address IP route mask
FF	The interface or remote node. See
' '	example below.
	The "FF" field means the interface index.
	For example:
	Ethernet interface: always 00
	Remote node 1 : 00
	Remote node 2 : 01
	Remote node 3 : 02
	Remote node 4 : 03
	Remote node 5 : 04
	Remote node 6 : 05
	Remote node 7 : 06
	Remote node 8 : 07
Len	The network mask
Device	The physical interface
Gateway	IP address or IP alias of the gateway
	router.
Metric	Indicates how many internet work hop
	(routers) have been traversed in the trip
	to the destination. This value is between 1
	and 15 for a valid route.
Stat	RD internal debug use only
Timer	0 = never timeout, if this entry is learned
	from RIP,it will start with default 180
	seconds and then count down.
	If it does not recieve the refresh RIP
	packet, this routing entry will be cleared
	after timeout.
Use	Number of times a route entry was used
	to route packets. (sending packet
	counter)

### 1.52 ip route add

### Description

The router using IP configuration information (eg., subnets, gateways) to automatically create a routing table that dictates how the system will send IP packets to other host systems. Use this command to add a new IP routing configuration in the routing table.

ip route add <dest addr>[/<bits>] <gateway> [<metric>]

### Command Syntax

#### **Parameters**

Name	Description
dest addr	Destination address of routing
bits	Value of bits
gateway	IP address acts as gateway in routing
metric	Hop count to measure the distance between the source and a destination network. Each hop in a path from source to destination is assigned a hop count value, which is typically 1

sys>ip route add 172.21.0.0 192.168.1.1 sys>ip route status

Dest	FF	Len	Device	Gateway	Metric	stat	Timer	Use
192.168.1.0	00	24	enet0	192.168.1.1	1	041b	0	0
172.21.0.0	00	32	enet0	192.168.1.1	1	001b	0	0

## 1.53 ip route addiface

Description

Use this command to add an interface to a routing table.

Command Syntax

ip route addiface <dest addr>[/<bits>] <iface> [<metric>]

### **Parameters**

Name	Description
dest addr	Destination address of routing
bits	Value of bits
iface	Input the interface name to add in routing
metric	Hop count to measure the distance between the source and a destination network. Each hop in a path from source to destination is assigned a hop count value, which is typically 1

### 1.54 ip route addprivate

### Description

Though it may seem obvious that the NAT can talk on its connected networks, it is nevertheless necessary to add routes for those. Use this command if you want to add some private entries that you don'twant broadcast to the outside world.

ip route addprivate <dest addr>[/<bits>] <gateway> [<metric>]

### Command Syntax

#### **Parameters**

Name	Description
dest addr	Destination address of routing
bits	Value of bits
gateway	IP address acts as gateway in routing
	Hop count to measure the distance between the source and a destination network. Each hop in a path from source to destination is assigned a hop count value, which is typically 1

sys>ip route addprivate 172.21.0.0 192.168.1.1 sys>ip route status

Dest	FF	Len	Device	Gateway	Metric	stat	Timer	Use
192.168.1.0	00	24	enet0	192.168.1.1	1	041b	0	0
172.21.0.0	00	32	enet0	192.168.1.1	1	001f	0	0

## 1.55 ip route drop

Description

Use this command to drop the routing gateway.

Command Syntax

ip route drop <host addr> [/<bits>]

**Parameters** 

Name	Description
host addr	Enter the host address to drop
bits	Bits value

### 1.56 ip routep help

Description Use this command to display IP policy routing CI

commands on-line help.

Command Syntax ip routep help

Output field description ip routep help Display help message

ip routep policy
ip routep create
ip routep set
ip routep delete

List all policy
Create a new policy
Set Policy & Rules
Delete a policy

ip routep rule List policy rules
ip routep apply Apply ip policy routing to la

ip routep apply Apply ip policy routing to lan or wan ip routep cancel Cancel ip policy routing to lan or wan

## 1.57 ip routep policy

**Description** Use this command to display IP policy routing list

Command Syntax

ip routep policy

Output field description

IP Routing Policy List

Policy #	Name	
01		
02		
03		
04		
05		
06		
07		
80		
09		
10		
11	-	
12		

### 1.58 ip routep create

**Description** Use this command to create a new IP policy routing

Command Syntax ip routep create <policy no> <name>

Output field description ip routep create 1 test

ip routep policy

### 1.59 ip routep delete

**Description** Use this command to delete a IP policy routing.

Command Syntax ip routep delete <policy no>

NameDescriptionParametersPolicy no

Output field description ip routep delete 1 ip routep policy

### 1.60 ip routep rule

**Description** Use this command to delete a IP policy routing rule.

Command Syntax ip routep rule <policy no>

NameDescriptionParametersPolicy no

Output field description ip routep rule 1

### 1.61 ip routep set

### Description

Use this command to set a IP policy routing rule. There 12 ip policy routing in system and each policy routing has 6 rules. When you use this command, you have to use "policy" and "rule" to set the policy no and rule no first. Then set the other parameters.

### Command Syntax

ip routep set <command>

### **Parameters**

Camanaaaa	Description
Command	Description
help	Display set on-line help
policy	Set the policy no
rule	Set the rule no
active	Active rule or not
cprotocol	Set criteria IP protocol
ctos	Set criteria type of service
len	Set criteria length of packet
cpre	Set criteria precedence
clencomp	Set criteria len comparator
sastart	Set criteria source start address
saend	Set criteria source end address
spstart	Set criteria source start port
spend	Set criteria source end port
dastart	Set criteria destination start address
daend	Set criteria destination end address
dpstart	Set criteria destination start port
dpend	Set criteria destination end port
action	Set action matched or not matched
gateway	Set action gateway address
log	Set action log or not
atos	Set action type of service
apre	Set action precedence
dian	Dienley wile content
disp	Display rule content
save	Save rule
exit	Don't save rule

### 1.62 ip routep apply lan

Description Use this command to apply IP policy routing settings to

lan interface.

Command Syntax ip routep apply lan <policy no>

**Parameters** 

Name	Description
policy no	Policy no

Output field description 
The following CI command will apply policy no 1 and 3 to

lan interface

Ip routep apply lan 1 3

### 1.63 ip routep apply wan

Description

Use this command to apply IP policy routing settings to

wan interface.

Command Syntax

ip routep apply wan <node> <policy no>

**Parameters** 

Name	Description
Node	Remote node no
policy no	Policy no

Output field description

The following CI command will apply policy no 1 and 3 to wan interface  $\boldsymbol{0}$ 

Ip routep apply wan 0 1 3

## 1.64 ip routep cancel lan

Use this command to remove IP policy routing settings from lan interface. Description

Command Syntax ip routep cancel lan

Ip routep cancel lan Output field description

### 1.65 ip routep cancel wan

Use this command to remove IP policy routing settings from lan interface. Description

Command Syntax ip routep cancel wan <node>

> Name Description **Parameters** Remote node no Node

Output field description Ip routep cancel wan 0

Description	Use this command to show the ip statistics counters			
Command Syntax	ip status			
	Below are information shown in ip statistics counters			
Output field description	(1)ipForwarding	1	(2)ipDefaultTTL	255
•	(3) ipInReceives	0	(4)ipInHdrErrors	0
	(5)ipInAddrErrors	0	( 6 )ipForwDatagrams	0
	(7) ipInUnknownProtos	0	(8)ipInDiscards	0
	(9)ipInDelivers	0	(10)ipOutRequests	387
	(11)ipOutDiscards	0	(12)ipOutNoRoutes	0
	(13)ipReasmTimeout	30	(14)ipReasmReqds	0
	(15)ipReasmOKs	0	(16)ipReasmFails	0
	(17)ipFragOKs	0	(18)ipFragFails	0
	(19)ipFragCreates	0		

## 1.67 ip udp status

Description	Use this	command	to display	udp	status	or	statistic
•		and control h					

counters and control blocks

### Command Syntax

ip status udp

Below are informat	ion show	'n in ip statis	stics counters	
(1)udpInDatagrams	0	(2)udpNoPo	rts	0
(3)udpInErrors	0	(4)udpOutDa	atagrams	0
&UCB	Rcv-Q	Local	Socket	
6c87a8	0	0.0.0.0:	161	
6c856c	0	0.0.0.0:	68	
6c8538	0	0.0.0.0:	67	
6c8504	0	0.0.0.0:	1025	
6c84d0	0	0.0.0.0:	1024	
6c849c	0	0.0.0.0:	53	
6c8468	0	0.0.0.0:	69	
6c8434	0	0.0.0.0:	263	
6c82c8	0	0.0.0.0:	520	

### 1.68 ip tcp status

Description

Use this command to display ip status and counters

Command Syntax

ip tcp status

Output field description

sys > ip tcp status (1)tcpRtoAlgorithm (2)tcpRtoMin 0 (3)tcpRtoMax 4294967295 (4)tcpMaxConn 4294967295 (5)tcpActiveOpens 0 (6)tcpPassiveOpens 0 (7)tcpAttemptFails 0 (8)tcpEstabResets 0 (9)tcpCurrEstab 0 (10)tcpInSegs 0 (11)tcpOutSegs 0 (12)tcpRetransSegs 0 (14)tcpInErrs 0 (15)tcpOutRsts 0 &TCB Rcv-Q Snd-Q Local socket 804b5de8 0 0 0.0.0.0:80 804b5cd4 0 0 0.0.0.0:21 804b5bc0 0 0 0.0.0.0:23 Remote socket State Listen (S) 0.0.0.0:0 0.0.0.0:0 Listen 0.0.0.0:0 Listen

### 1.69 ip xparent join

Description

Use this command to display interfaces that are joined in a transparent bridge with interface 1. If specified, join interface 2 in the transparent bridge with interface 1.

ip xparent join <iface1>[<iface2>]

Command Syntax

**Parameters** 

Name	Description
iface 1	First interface
iface 2	Second interface

sys> ip xparent join enif0

The following iface is the same net as enif0:

Output field description

enif0:1 enif0:0

## 1.70 ip xparent break

Description

Use this command to detach the interface by breaking any transparent bridging with other interfaces.

Command Syntax

ip xparent break <iface>

**Parameters** 

Name	Description
iface	Interface

### 1.71 ip igmp debug

**Description** Use this command to display or set IGMP debug level.

Command Syntax

ip igmp debug [level]

**Parameters** 

Name	Description
level	1,2,3

Output field description

sys>ip igmp debug IGMP debug level : 1 sys>ip igmp debug 2 sys>ip igmp debug IGMP debug level 2

### 1.72 ip igmp forwardall

Description

Use this command to display or set IGMP forwarding to all

interfaces switch

Command Syntax

ip igmp forwardall [0|1]

**Parameters** 

Name	Description
0	Disable ip igmp forwardall
1	Enable ip igmp forwardall

sys>ip igmp forwardall IGMP forward to all interface : off

sys>ip igmp forwardall 1 sys>ip igmp forwardall IGMP forward to all interface : on

### 1.73 ip igmp querier

Use this command to display or set IGMP becoming a non-querier switch Description

Command Syntax

ip igmp querier [0|1]

**Parameters** 

Name	Description	
0	Disable ip igmp querier	
1	Enable ip igmp querier	

sys>ip igmp querier

IGMP become non-querier : off

sys>ip igmp querier 1 sys>ip igmp querier

IGMP become non-querier : on

### 1.74 ip igmp iface

Description

Use this command to set or change the configuration of the interface.

Command Syntax

ip igmp iface <iface>sub commands

### <iface> grouptm <timeout>

Sub commands&Parameters - set igmp group timeout

Name	Description
iface	Name of the interface
timeout	Timeout value

### <iface> interval <interval>

- set igmp query interval

Name	Description
iface	Name of the interface
interval	Interval value

### <iface> join <group>

- join a group on iface

Name	Description
iface	Name of the interface
group	Group address

### <iface> leave <group>

- leave a group on iface

Name	Description
iface	Name of the interface
group	Group address

### <iface> query

- send query on iface

Name	Description
Iface	Name of the interface

### <iface> rsptime [time]

- set iamp response time

eet iginip reepenee time		ones ums
	Name	Description
	iface	Name of the interface
	time	IGMP maximum response time value

#### <iface> start

- turn on igmp on iface

tarr on ignip on hace		011 11400
	Name	Description
	iface	Name of the interface

### <iface> stop

- turn off igmp on iface

Name	Description
iface	Name of the interface

#### <iface> ttl <threshold>

### - set ttl threshold

Name	Description
iface	Name of the interface
threshold	Multicast TTL threshold value

<iface> v1compat [0|1]
turn off/on v1compat on iface

Name	Description
iface	Name of the interface
0/1	Off/on value

### 1.75 ip igmp robustness

### Description

The IGMP robustness variable provides fine-tuning to allow for expected packet loss on a subnet. By default, the robustness variable is set to 2. You might want to increase this value if you expect a subnet to be loss. Use this command to change the value of the robustness variable. The minimum value of the variable is 2. If there is no variable input, this command display the current igmp robustness variable.

ip igmp robustness [<variable>]

Command Syntax

Name	Description
variable	Numeric (2,3,4,)

**Parameters** 

sys>ip igmp robustness IGMP robustness variable is 2 sys>ip igmp robustness 4 IGMP robustness variable is 4

### 1.76 ip igmp status

_	esc	nin	+:	^-
U	esc	L.IP	,,,	Uľ

Use this command to display IGMP settings on all interfaces.

flags

#### . . . .

**Output** 

### Command Syntax

# Group groupLink ifaceLink 224.0.0.12 [006c8364 001c5ac0] [006c8384

 224.0.0.12
 [006c8364 001c5ac0]
 [006c83a8 006c83a8] 0003

 224.0.0.9
 [006c8330 006c8398]
 [006c8374 006c8374] 0001

 224.0.0.2
 [006c82fc 006c8364]
 [006c8340 06c8340] 0001

 224.0.0.1
 [001c5ac0 006c8330]
 [006c830c 006c830c] 0001

#### iface enif0 flags 00000000

ip igmp status

query interval 125 sec, max rsp time 90 1/10 sec, group timeout 260 sec, counter 1, query timer 16 sec, v1 host present timer 0 sec, ttl threshold 23 multicast group:

### iface enif0:0 flags 00000000

query interval 0 sec, max rsp time 0 1/10 sec, group timeout 0 sec, counter 0, query timer 0 sec, v1 host present timer 0 sec,ttl threshold 0 multicast group:

### iface enif0:1 flags 00000000

query interval 0 sec, max rsp time 0 1/10 sec, group timeout 0 sec, counter 0, query timer 0 sec, v1 host present timer 0 sec,ttl threshold 0 multicast group:

### 1.77 lan index

Description

Use this command to set the lan index no then use other

CI commands to set ip alias or other information.

Command Syntax

lan index <index>

**Parameters** 

Name	Description	
index	Lan index.	
	1 is main lan interface	
	2 is ip alias #1 interface	
	3 is ip alias #2 interface	

Output

sys> lan index 2 enif0:0 is selected

### 1.78 lan display

**Description** Use this command to display lan interface information..

Command Syntax

lan display

**Output** sys> lan index 2

enif0:0 is selected sys> lan display Active: Yes Interface: enif0:0

IP Address: 192.168.2.1 Subnet Mask: 255.255.255.0

RIP Direction: Both RIP Version: RIP-2M Protocol Filter Set: Incoming: 0 0 0 0 Outgoing: 0 0 0 0

## 1.79 lan ipaddr

Description

Use this command to set the lan ip address and network  $% \left( 1\right) =\left( 1\right) \left( 1\right$ 

mask

Command Syntax

lan ipaddr <ipaddr> <netmask>

**Parameters** 

Name	Description
ipaddr	IP address
netmask	Network mask

Output

tc> lan ipaddr 192.168.2.1 255.255.255.0

Description

Use this command to set the lan RIP information.

Command Syntax

lan rip <dir> <ver>

**Parameters** 

Name	Description
dir	Set RIP direction. You can set it to none, in,
	ou or both.
ver	Set RIP version. You can set it to rip1, rip2b
	or rip2m.

Output

sys> lan rip both rip2m

### 1.81 lan save

**Description** Use this command to save the lan information.

Command Syntax lan save

Output Sys> lan save

# 1.82 lan clear

**Description** Use this command to clear the lan information.

Command Syntax lan clear

Output sys> lan clear

### 1.83 lan active

Use this command to active lan interface or not. Description

Command Syntax lan active <yes|no>

Output

sys> lan index 2 enif0:0 is selected sys> lan active yes

# 1.84 bridge cnt disp

Description

Use this command to display bridge routing statistics table.

Command Syntax

bridge cnt disp <value>

**Parameters** 

Name	Description				
value	Numerical value				

Output field description

sys>bridge cnt disp 1 ***Last Bridge Route Code 0			
WanLanldErr	0	WanMacHdrErr	0
WanFiltered	0	WanQueLanErr	0
LanMacHdrErr	0	LanFiltered	0
LanWatchDogQueErr	0	LanNotBrtNotCast	0
LanNoWanDevice	0	LanNoNode	0
LanNoDialOnCast	0	LanDial	0
LanDialNotAllow	0	BrCastIPNotSent	0
BrCastIPXNotSent	0	BrCastARPNotSent	0
BrtDial	0	BrtDialNotAllow	0
WanNoNode	0	BrtAddLocalNode	0

# 1.85 bridge cnt clear

**Description** Use this command to clear bridge routing statistics table.

Command Syntax

bridge cnt clear <value>

Name	Description
value	Numerical value

# 1.86 bridge stat disp

Description

Use this command to display bridge packet statistics table.

Command Syntax

bridge stat disp <value>

**Parameters** 

Name	Description
value	Numerical value

Output field description

sys>bridge stat disp 1 ***Last Bridge Pkt code 0			
WanInIP	0	WanInIPX	0
WanInARP	0	WanInATLK	0
WanInOTHR	0	WanInIPbrCast	0
WanInIPXbrCast	0	WanInARPbrCast	0
WanInATLKbrCast	0	WanInOTHRbrCast	0
LanInIP	0	LanInIPX	0
LanInARP	0	LanInATLK	0
LanInOTHR	0	LanInIPbrCast	0
LanInIPXbrCast	0	LanInARPbrCast	0
LanInATLKbrCast	0	LanInOTHRbrCast	0
LanInWatchDog	0	WanInOdd	0
WanInWanOut	0	WanInOwn	0
WanInLanOut	0	LanInWanOut	0
LanInWanOut2	0		

# 1.87 bridge stat clear

**Description** Use this command to clear bridge packet statistics table.

Command Syntax

bridge stat clear <value>

Name	Description
value	Numerical value

Description		Use th	is comi			splay the uration.	e current E	thernet
Command Syntax	ethe	er config	9					
			[	NDIS	Configu	iration Blo	ock	
Output field description	Boar task boar boar 6c7f line- 6c4k char 5c90	id=1b0bb d-cfg=6ae d-pp (6ae 20 pp (6aefb b00 nn-pp (6ae 220 5c950	s:1 Line 04 event ef64 line efb0) 4) efb8)	-q=67 -cfg=6	5384(1 6aef7c	9) data-c chann-cf	ines:2 Total 1=6753c8(1a) g=6aef90	func-id=2
	ID 00	slot# 0	n-line 1	n-ch	nann 2	status 0001	line-cfg 6aef7c	chann-cfg 6aef90
				 ! -!	Line [	Display	f	
	00	line# 1	(	00	2	68	aef90	
	ID	chann#	liı	ne-id 00	board	-id 00	address 5c9020 5c950c	enet0
		_					<del>-</del>	

# 1.89 ether driver cnt disp

Description

Use this command to display the ether driver/statistics on the Ethernet driver.

Command Syntax

ether driver cnt disp <channel name>

**Parameters** 

Name	Description
channel name	Input the driver's channel name
	(enet0,enet1,)

Below are the informations shown by the command:

Output field description

ChanID	MACTxPaused	BDMATxErr
Cntptr	MACTxDefer	BDMATxCp
BDMARxInt	MACTxNoCarr	BDMATxNLErr
BDMATxInt	MACTxSQE	BDMATxNotErr
MACRxInt	MACTxLateColl	BDMATxEmpty
MACTxInt	MACTxPar	BDMATxCmp
MACRxCtlRecd	MACTxHalted	RxPktCnt
MACRx10Stat	MACTxUnder	TxPktCnt
MACRxAlignErr	MACTxErr	MACRxNothing
MACRxCRCErr	MACTxCmp	RxNoBufCnt
MACRxOverFlowErr	BDMARxErr	TxSignalCnt
MACRxLongErr	BDMARxEarly	TxBufFullCnt
MACRxParErr	BDMARxNIErr	Bug1
MACRxHalted	BDMARxNotErr	Bug2
MACRxGood	BDMARxMsoErr	Bug3
MACRxErr	BDMARxEmptyErr	Bug4
MACTxExcColl	BDMARxFifoOvr	MACTXColl
MACTxDefered	BDMARxFail	

#### 1.90 ether driver status

Description

Use this command to display LAN Status

Command Syntax

ether driver status <channel name>

**Parameters** 

Name	Description		
	Input the driver's channel name (enet0,enet1,)		

Below are the information shown by the command:

Output field description

ChanID Mac Eq dq DevType DevFlag ifaceType TxSending mac_p ec_p IntPend . IntMask TxFrameStart RxFrameStart RxFrameCur TxFrameCur RxFrameIn TxFrameIn TxFrameOut RxFrameOut LinkSt CacheQueue guardTimer pastRxIntCnt MbufCacheAlloc MbufCacheEmpty

# 1.91 ether driver config

Description

Use this command to set the Ethernet driver configuration

Command Syntax

ether driver config <parameters>

Parameters	Description
Auto/Normal	0=auto sence 1=normal
10/100	0=10Mbps 1=100Mbps
Half/Full Dup	0=half duplex 1=full duplex
Ch-name	Channel name.

# 1.92 ether version

**Description** Use this command to display the ethernet driver version

Command Syntax ether version

#### 1.93 show wan node

Description

Use this command to show the status of wan in specific

remote node.

Command Syntax

show wan node <vc_index:0~7>

**Parameters** 

Name	Description				
vc_index:0~7	Input the number of remote node				

#### Output field description

sys> show wan node 0

RemoteNode = 0

Rem Node Name = 1(ISP)

Encapsulation = RFC 1483

Multiplexing = LLC-based

Channel active = Yes

VPI/VCI value = 0/33

IP Routing mode= No

Bridge mode = Yes

Remote IP Addr = 0.0.0.0

Remote IP Subnet Mask = 0.0.0.0

IP address assignment type = Dynamic

SUA = No

Multicast = None

### 1.94 show wan adsl

Description

Use this command to show the configuration and setting that related to the adsl.

Command Syntax

show wan adsl <command>

Command	Description
chandata	show the channel data information
close	close the adsl connection
coding	show the adsl line coding information
defbitmap	show the adsl defect bit map table
linedata	show the adsl linedata information
open	open the adsl connection
opencmd	show the adsl connection type
opmode	show the adsl operational mode
perfdata	show adsl performance data
reset	reset the adsl connection
status	show current adsl connection status
version	show the adsl version
vendorid	show adsl vendorid configuration
utopia	show the adsl utopia parameters
nearituid	show adsl near end itu identification
farituid	show adsl near end itu identification
cellcnt	show adsl cell counter
defectcheck	show adsl defect check configuration
txgain	show adsl transmission gain
targetnoise	show adsl target noise margin
txfilter	show adsl transmission filter
setrvid	show adsl near-end vendor id
txtones	show adsl transmission start/stop tone
snroffset	show adsl snr offset
errorsecond	show adsl error second information
diag	show adsl connection diagnostic
watchdog	show adsl dsp watchdog status
fwversion	show adsl firmware version
uptime	show adsl connection uptime

#### 1.95 show lan

**Description** Use this command to show the lan configuration status

Command Syntax show lan

Output field description  $$\,_{\mbox{sys}>\mbox{show lan}}$$ 

DHCP setting:

DHCP Mode = None

TCP/IP Setup:

IP Address = 192.168.1.1 IP Subnet Mask = 255.255.255.0

Rip Direction = Both Version = Rip-2B Multicast = IGMP-v2

### 1.96 show community

Description Use this command to show the community/SNMP

configuration status

Command Syntax Show community

Output field description sys>show community

SNMP Configuration:
Get Community = public
Set Community = public
Trusted Host = 0.0.0.0

Trap:

Community = public Destination = 0.0.0.0

#### 1.97 show channel display

Description Use this command to show the channel status,

configuration and counter.

Command Syntax show channel display <parameters>

Parameters F

Parameters	Description
[vc_index]	Input vc / remote node number (mpoa)

Output field description sys>show channel display 1

----- CHANNEL mpoa01 -----

State: N/A

inPkt = 0, inDiscard = 0, inError = 0inDrop = 0, inOctet = 0, inUCast = 0

inMCast = 0

outPkt = 0, outDiscard = 0, outError = 0 outOctet= 0, outUCast = 0, outMCast = 0

#### 1.98 show channel clear

Description

Use this command to show the channel status,

configuration and clear the counter.

Command Syntax

show channel clear <parameters>

**Parameters** 

Parameters	Description
[vc_index]	Input vc / remote node number (mpoa)

#### Output field description

#### sys>show channel clear 1

----- CHANNEL mpoa01 -----

State: N/A

inPkt = 0, inDiscard = 0, inError = 0inDrop = 0, inOctet = 0, inUCast = 0

inMCast = 0

outPkt = 0, outDiscard = 0, outError = 0 outOctet= 0, outUCast = 0, outMCast = 0 Description Use this command to show all information about the

system

Command Syntax show all

Output field description

sys>show all

RemoteNode = 0

Rem Node Name = 1(ISP)

Encapsulation = RFC 1483

Multiplexing = LLC-based

Channel active = Yes

VPI/VCI value = 0/33

IP Routing mode= No

Bridge mode = Yes

Remote IP Addr = 0.0.0.0

Remote IP Subnet Mask = 0.0.0.0

IP address assignment type = Dynamic

SUA = No

Multicast = None

RemoteNode = 1

Rem Node Name = node1

Encapsulation = RFC 1483

Multiplexing = LLC-based

Channel active = Yes

VPI/VCI value = 8/35

IP Routing mode= No

Bridge mode = Yes

Remote IP Addr = 0.0.0.0

Remote IP Subnet Mask = 0.0.0.0

IP address assignment type = Dynamic

SUA = No

Multicast = IGMP-v2

RemoteNode = 2

<empty>

RemoteNode = 3

<empty>

RemoteNode = 4

<empty>

RemoteNode = 5

<empty>

RemoteNode = 6

<empty>

RemoteNode = 7

<empty>

# 1.100 set cpe

Description

Use this command to set the configuration related to the sytem

Command Syntax

set cpe <command>

Command	Description
Hosname	Set the system hostname
Message	Set the router cpe message
Iproute	switch the cpe router in ip mode (on/off)
bridge	switch the cpe router in bridge mode
	(on/off)

Description

Use this command to set the configuration related to the wan connection

Command Syntax

set wan <command>

Command	Description
Help	Display the help contents
node	Set wan remote node configuration
clear	Clear or delete a remote node
enable	Enable a specific remote node
disable	Disable a specific remote node
encap	Set remote node's encapsulation
mux	Set remote node's multiplexing
vpi	Set remote node's vpi value
vci	Set remote node's vci value
wanip	Set remote node's wan ip (static/dynamic)
remoteip	Set wan remote ip
bridge	Set remote node to bridge mode
iproute	Set remote node to ip route mode
sua	Set wan sua (on/off)
rip	Set wan rip mode
multicast	Set wan multicast mode
ppp	Username : set wan ppp username
	Password : set wan ppp password
	Auth : set wan ppp authentic
	<chap pap both></chap pap both>
save	save wan configuration setting
exit	exit wan configuration setting without saving

### 1.102 set wan adsl

Description

Use this command to set the configuration and setting that related to the adsl.

Command Syntax

et wan adsl <command>

Command	Description
chandata	set the channel data information
close	close the adsl connection
coding	set the adsl line coding information
defbitmap	set the adsl defect bit map table
linedata	set the adsl linedata information
open	open the adsl connection
opencmd	set the adsl connection type
opmode	set the adsl operational mode
perfdata	set adsl performance data
reset	reset the adsl connection
status	set current adsl connection status
version	set the adsl version
vendorid	set adsl vendorid configuration
utopia	set the adsl utopia parameters
nearituid	set adsl near end itu identification
farituid	set adsl near end itu identification
cellcnt	set adsl cell counter
defectcheck	set adsl defect check configuration
txgain	set adsl transmission gain
targetnoise	set adsl target noise margin
txfilter	set adsl transmission filter
setrvid	set adsl near-end vendor id
txtones	set adsl transmission start/stop tone
snroffset	set adsl snr offset
errorsecond	set adsl error second information
diag	set adsl connection diagnostic
watchdog	set adsl dsp watchdog status
fwversion	set adsl firmware version
uptime	set adsl connection uptime

Description

Use this command to set the IP configuration

Command Syntax

set lan<command>

Command	Description			
ipaddr	set lan IP address			
	set lan ipaddr <ipaddr> <subnet mask=""></subnet></ipaddr>			
rip	set RIP mode			
	set lan rip <none both inonly outonly></none both inonly outonly>			
	<rip1 rip2b rip2m></rip1 rip2b rip2m>			
multicast	set lan multicast mode			
	set lan multicast <none igmpv1 igmpv2></none igmpv1 igmpv2>			
dhcp	set lan dhcp feature			
	set lan dhcp <none server relay></none server relay>			
relayipaddr	set lan relay IP address			
	set lan relayipaddr <ipaddr></ipaddr>			
dhcppool	set lan ip dhcp and pool value			
	set lan dhcppool <ipaddr> <num></num></ipaddr>			
dhcpleasetime	set lan dhcp lease time			
	set lan dhcpleasetime <period:seconds></period:seconds>			
dhcpdns	set dns on dhcp feature			
	set lan dhcpdns <dns1> <dns2></dns2></dns1>			

# 1.104 set community

Description

Use this command to set the SNMP configuration

Command Syntax

set community <parameters>

Parameters	Description
Get_Comm	Community string of SNMP GET_Request
Set_Comm	Community string of SNMP SET_Request
Trusted_Host	IP Address of Trusted_Host. "0.0.0.0" for
	every host.
Trap_Comm	Community string of SNMP Trap_Indication
Trap_Dest	IP Address of Trap Destination Host.

### 1.105 set baudrate

**Description** Use this command to set the router's baudrate

Command Syntax set baudrate <parameters>

Parameters		
9600k		
19200k		
38400k		
57600k		
115200k		

### 1.106 set reboot

 $\textbf{Description} \qquad \text{Use this command to reset the system}$ 

Command Syntax set reboot

# 1.107 etherdbg print

Description Use this command to open or close the Ethernet debug

messages.

Command Syntax set etherdbg print

### 1.108 usb version

Use this command to display the usb support version Description

Command Syntax usb version

sys>usb version USB VERSION : 1.1 Output field description

# 1.109 usb address

**Description** Use this command to display the usb device address

Command Syntax usb address

# 1.110 usb config

**Description** Use this command to display the usb configuration

Command Syntax usb config

Output field description sys>usb config

USB Chan ID Num = 2
USB Chan Name = enet2
USB Vendor ID = 45e
USB Product ID = 930a

# 1.111 usb cnt display

**Description** Use this command to display the usb endpoint counter

Command Syntax usb cnt display

Output field description sys>usb cnt display ..... DISPLAY USB ENDPOINT COUNT .....

		101 6711	OOD LIND! OIN		) I W I	
EP0 Tx	=	0,	EP0 TxErr	=	0	
EP0 Rx	=	0,	EP0 RxErr	=	0	
EP1 Tx	=	0,	EP1 TxErr	=	0	
EP1 Rx	=	0,	EP1 RxErr	=	0	
EP2 Tx	=	0,	EP2 TxErr	=	0	
EP3 Tx	=	0,	EP3 TxErr	=	0	
EP3 Rx	=	0,	EP3 RxErr	=	0	

# 1.112 usb cnt clear

**Description** Use this command to clear the usb endpoint counter

Command Syntax usb cnt clear

# 1.113 usb debug

**Description** Use this command to enable or disable the debug

message

Command Syntax usb debug <parameters>

Name	Description		
1	Enable		
0	Disable		

# 1.114 usb reset

**Description** Use this command to reset the USB connection

Command Syntax usb reset

#### 1.115 wan hwsar clear

Description

Use this command to clear the SAR driver counters.

Command Syntax

wan hwsar clear

Output field description

sys>wan hwsar clear

[SAR Counters]

inPkts = 0x000000000, inDiscards = 0x000000000inF4Pkts = 0x00000000, inF5Pkts = 0x00000000inDMATaskEnd = 0x000000000, inBufErr = 0x000000000

inCrcErr = 0x00000000, inDute11 = 0x00000000

outPkts = 0x00000000, outDiscards = 0x00000000

outF4Pkts = 0x00000000, outF5Pkts = 0x000000000

softRstCnt = 0x00000000

#### 1.116 wan hwsar disp

Description

Use this command to display the SAR driver counters.

Command Syntax

wan hwsar disp

sys>wan hwsar disp

Output field description

[SAR Counters]

inPkts = 0x000000000, inDiscards = 0x000000000inF4Pkts = 0x00000000, inF5Pkts = 0x00000000inDMATaskEnd = 0x00000000, inBufErr = 0x000000000

inCrcErr = 0x00000000, inDute11 = 0x00000000

outPkts = 0x00000000, outDiscards = 0x00000000

outF4Pkts = 0x00000000, outF5Pkts = 0x000000000

softRstCnt = 0x00000000

### 1.117 wan hwsar sendoam

Use this command to send oam cell Description

wan hwsar sendoam Command Syntax

Output field description sys>wan hwsar sendoam

Usage: <vpi> <vci> <f5> <end-to-end> <type:0(AIS) 1(RDI) 2(LoopBack)>

#### 1.118 wan adsl chandata

**Description** Some useful information about your connection can then

be viewed. Use this command to display the adsl channel data or line rate to determine if you're on fast channel or

interleave channel mode.

Command Syntax wan adsl chandata

Output field description sys>wan adsl chandata near-end interleaved channel bit rate: 0 kbps

near-end interleaved channel bit rate: 0 kbps far-end interleaved channel bit rate: 0 kbps far-end fast channel bit rate: 512 kbps

## 1.119 wan adsl close

Description User can disconnect the adsl connection through CI

command. Use this command to close or interrupt adsl

connection.

Command Syntax wan adsl close

Output field description sys>wan adsl close

Uk

## 1.120 wan adsl opmode

**Description** Use this command to display adsl mode standard

(operational mode) your Router is using.

Command Syntax wan adsl opmode

Output field description sys>wan adsl opmode

sys>wan adsl opmode operational mode: ITU G.992.1(G.DMT)

#### 1.121 wan adsl linedata

Description

Type wan adsl line far or wan adsl line near to get your

upstream or downstream line noise margin and

attenuation.

Command Syntax

wan adsl linedata [far|near]

**Parameters** 

Name	Description
far	Show adsl far-end linedata (carrier load)
near	Show adsl near-end linedata (noise margin)

Output field description

sys>wan adsl linedata far

carrier load: number of bits per symbol(tone)

00 00 00 00 00 00 00 .....

sys>wan adsl linedata near noise margin downstream: 30.0 db

noise margin upstream: 26.0 dbm

# 1.122 wan adsl open

**Description** Use this command to open the adsl connection

Command Syntax wan adsl open

sys>wan adsl open ok

Output field description ok

### 1.123 wan adsl opencmd

**Description** Use this command to set mode of adsl operation. After

changing the connection mode, the adsl must be reset by

typing wan adsl reset.

wan adsl opencmd [gdmt|glite|t1.413|multimode]

Command Syntax

Sys>wan adsl opmode operational mode: G_DMT

sys>wan adsl opencmd glite

sys>wan adsl reset sys>wan adsl opmode operational mode: G_Lite

## 1.124 wan adsl coding

**Description** Use this command to display current adsl line coding.

Command Syntax wan adsl coding

sys>wan adsl coding line coding: DMT

Output field description line coding: DM

### 1.125 wan adsl defbitmap

**Description** Use this command to show adsl defects bitmaps status.

Command Syntax wan adsl defbitmap

Output field description

```
sys>wan adsl defbitmap
```

current near-end defects bitmaps:

Los :0 Lof :0 Lop :0

LcdNonInterleaved:0

LcdInterleaved :0 Lom :0

current far-end defects bitmaps:

Los :0 Lof :0 Lop :0 LcdNonInterleaved:0 LcdInterleaved :0

Lom :0

current near-end defects bitmaps changed:
Los :0
Lof :0
Lop :0

LcdNonInterleaved:0

LcdInterleaved :0

current far-end defects bitmaps changed:

Los :0
Lof :0
Lop :0
LcdNonInterleaved:0
LcdInterleaved :0

## 1.126 wan adsl opmode

Description Use this command to display adsl mode standard

(operational mode) your modem is using.

Command Syntax wan adsl opmode

Output field description sys>wan adsl opmode

sys>wan adsl opmode operational mode: ITU G.992.1(G.DMT)

### 1.127 wan adsl perfdata

Description

Use this command to display details of adsl line statistics

or adsl performance data.

Command Syntax

wan adsl perfdata

Output field description

sys>wan adsl perfdata

near-end FEC error fast: 0

near-end FEC error interleaved: 0

near-end CRC error fast: 1

near-end CRC error interleaved: 0

near-end HEC error fast: 0

near-end HEC error interleaved: 0

far-end FEC error fast: 0

far-end FEC error interleaved: 0

far-end CRC error fast: 0

iai-end CRC endi iast: 0

far-end CRC error interleaved: 0

far-end HEC error fast: 0

far-end HEC error interleaved: 0

Error second in 15min : 0

Error second in 24hr : 0

Error second after power-up : 0

ADSL uptime 0:02:13

## 1.128 wan adsl reset

**Description** Use this command to reset the adsl connection.

Command Syntax wan adsl reset

### 1.129 wan adsl status

**Description** Use this command to check and display current adsl line

status

wan adsl status

Command Syntax

sys>wan adsl status

Output field description current modem status: up

## 1.130 wan adsl version

**Description** Use this command to show the adsl version.

Command Syntax wan adsl version

sys>wan adsl version

Output field description near-end version: 1

far-end version: 0

## 1.131 wan adsl vendorid

**Description** Use this command to show adsl chipset vendor id.

Command Syntax wan adsl vendorid

Output field description sys>wan adsl vendorid

near-end vendorid: 22bb far-end vendorid: 0

## 1.132 wan adsl utopia

Use this command to show adsl utopia interface Description

information.

Command Syntax

wan adsl utopia

Output field description

sys>wan adsl utopia UTOPIA parameters: level: 1

fast address: 0

interleaved address: 1

## 1.133 wan adsl nearituid

Use this command to show adsl G.DMT/G.lite near-end Description

ITU id.

Command Syntax

wan adsl nearituid

Output field description

sys>wan adsl nearituid near end itu identification: 0 0 54 43 54 4e 0 0

## 1.134 wan adsl farituid

Use this command to show adsl G.DMT/G.lite far-end ITU Description

Command Syntax

wan adsl farituid

Output field description

sys>wan adsl farituid far end itu identification: f 0 41 4c 43 42 0 0

## 1.135 wan adsl farituid

Use this command to show adsl G.DMT/G.lite far-end ITU Description

Command Syntax

wan adsl farituid

Output field description

sys>wan adsl farituid far end itu identification: f 0 41 4c 43 42 0 0

### 1.136 wan adsl cellcnt

**Description** Use this command to show the cell counter information

Command Syntax wan adsl cellcnt

Output field description sys>wan adsl cellcnt

ActiveRxCellsInterleaved = 240 ActiveTxCellsInterleaved = 0 ActiveTxCellsInterleaved = 472

## 1.137 wan adsl defectcheck

**Description** Use this command to set turn on/off the adsl defact check

Command Syntax wan adsl defectcheck

Output field description sys>wan adsl defectcheck [on|off]

## 1.138 wan adsl txgain

Description Use this command to set adsl transmission gain

wan adsl txgain Command Syntax

Output field description

sys>wan adsl txgain usage: gain value should be >= 0x0c or <= 0x00 (-12~0dB) current value:2

## 1.139 wan adsl targetnoise

Description Use this command to set adsl transmission target noise

margin.

Command Syntax wan adsl targetnoise

Output field description

sys>wan adsl targetnoise usage: gain value should be snr margin(dB) * 512 current value:900

## 1.140 wan adsl txfilter

**Description** Use this command to set adsl transmission filter.

Command Syntax wan adsl txfilter

Output field description sys>wan adsl txfilter

sys>wan adsl txfilter usage: tx_filter_type current value:31

## 1.141 wan adsl setrvid

**Description** Use this command to set adsl near-end ITU id.

Command Syntax wan adsl setrvid

Output field description sys>wan adsl setroid

usage: 0=trendchip 1=alcatel 2=gspn 3=ti 4=adi 5=infineon

#### 1.142 wan adsl txtones

**Description** Use this command to set adsl transmission start/stop tone

number.

Command Syntax wan adsl txtones

Output field description

sys>wan adsl txtones

usage: <start tone> <end tone> tone=0x6~0x1F current value: start_tone=6 end_tone=1d

## 1.143 wan adsl snroffset

Description Use this command to set adsl snr offset.

wan adsl snroffset Command Syntax

Output field description sys>wan adsl txtones

usage: set snr offset (offset(db)*512) current value:fffff200

### 1.144 wan adsl errorsecond

**Description** Use this command to set when there are many error

second, the adsl will be reseted or not.

Command Syntax wan adsl errorsecond

**Parameters** 

Name	Description
switch	Enable/disable error second shutdown adsl
	connection
shutdown	Show adsl shutdown counter caused by
	error seconds

Output field description

sys>wan adsl shutdown

Time to shutdown by error second <0:disable>: 0

#### 1.145 wan adsl diag

#### Description

Use this command to show the features related to the system and adsl connection on wan interface. This command displays the information that includes sys date, version, ip arp status, firmware version, opmode, status, dmt rates etc. For the complete reference please refer to the below description.

#### Command Syntax

wan adsl diag

#### Output field description

```
sys> wan adsl diag
sys version => ...
sys date => ...
sys time => ...
sys cpu disp => ...
ip arp status => ...
wan adsl fwversion => ...
wan dmt tr 0 \Rightarrow \dots
wan adsl c => ...
wan adsl p => ...
wan adsl opmode => ...
wan adsl status => ...
wan adsl nearituid => ...
wan adsl farituid => ...
wan adsl l n => ...
wan adsl I f => ...
wan dmt rates1 => ...
wan dmt msg1 => ...
wan dmt rates_ra => ...
wan dmt msg_ra => ...
wan dmt rates2 => ...
wan dmt msg2 => ...
wan dmt afe paracfg 72 1 => ...
wan dmt show mederrp => ...
wan dmt initbng => ...
wan dmt bng => ...
wan dmt show snr => ...
wan dmt aoc dump => ...
wan dmt show pilotinput => ...
wan dmt cell => ...
wan hwsar disp => ...
wan dmt db disp => ...
wan dmt db get => ...
wan dmt parse 48 => ...
wan dmt parse 4f => ...
wan dmt parse 50 => ...
wan dmt tlog 77 1 => ...
wan dmt set retrainmethod => ...
wan dmt set highrate => ...
wan dmt set pllkpki => ...
wan dmt set cbngrelink => ...
wan dmt set retrainmedley => ...
wan dmt set ibinsert => ...
```

wan dmt set medleypatchk => ...

wan dmt set pilotdata => ...
wan dmt set rmsgrabmax => ...
sys memrl b4000000 => ...
sys memrl b4000008 => ...
sys memrl b400080c => ...
wan adsl p => ...
sys view autoexec.net => ...

## 1.146 wan adsl watchdog

Description

Use this command to display the current firmware version.

Command Syntax

wan adsl watchdog

**Parameters** 

Name	Description
	Enable adsl watchdog to prevent abnormal condition
	Disable adsl watchdog to prevent abnormal condition

Output field description

sys>wan adsl watchdog adsl dsp watchdog: 1

## 1.147 wan adsl fwversion

Use this command to display the current firmware version. Description

wan adsl fwversion Command Syntax

sys>wan adsl fwversion ADSL FwVersion is = ... Output field description

## 1.148 wan adsl uptime

Use this command to display the adsl uptime information Description

wan adsl uptime Command Syntax

sys>wan adsl uptime ADSL uptime 0:04:59 Output field description

#### Description

The Extended Service Set ID (ESSID) is the name of the network you wish to build. It is used to identify different wireless networks. Use this command to set the name of network. The configuration needs to be saved by typing wlan save; otherwise the ESSID name will only be stored in a temporary status. By using wlan display we can ensure whether the configuration takes effect.

#### Command Syntax

wlan essid <parameters>

#### **Parameters**

Name	Description
ESSID name	Network name wish to build

#### Output field description

```
sys>wlan essid 1234
sys>wlan save
```

sys>wlan display essid = 1234chid = 3 hide essid = No RTS threshold Frag threshold = 2432WEP key type = none WEP default key = 0MAC filter active MAC filter action = Allow

index MAC address index MAC address

00:00:00:00:00:00 17 00:00:00:00:00:00 2 00:00:00:00:00:00 18 00:00:00:00:00:00 3 00:00:00:00:00:00 19 00:00:00:00:00:00 4 00:00:00:00:00:00 20 00:00:00:00:00:00 5 00:00:00:00:00:00 21 00:00:00:00:00 00:00:00:00:00:00 22 00:00:00:00:00 6 7 00:00:00:00:00:00 23 00:00:00:00:00 8 00:00:00:00:00:00 24 00:00:00:00:00 00:00:00:00:00:00 25 00:00:00:00:00 10 00:00:00:00:00 26 00:00:00:00:00 11 00:00:00:00:00 27 00:00:00:00:00 12 00:00:00:00:00 28 00:00:00:00:00 13 00:00:00:00:00 29 00:00:00:00:00 14 00:00:00:00:00:00 30 00:00:00:00:00:00 15 00:00:00:00:00 31 00:00:00:00:00 16 00:00:00:00:00:00 32 00:00:00:00:00

#### Description

Use this command to set the channel configuration. The configuration also needs to be saved by typing wlan save; otherwise the ESSID name will only be stored in a temporary status. By using wlan display we can ensure whether the configuration takes effect.

#### Command Syntax

wlan chid n

#### **Parameters**

Name	Description	
n	Number of channel id	

#### Output field description

sys>wlan chid 3 sys>wlan save sys>wlan display essid = 1234 chid = 3

chid = 3
hide essid = No
RTS threshold = 0
Frag threshold = 2432
WEP key type = none
WEP default key = 0
MAC filter active = 0
MAC filter action = Allow

index MAC address index MAC address

```
00:00:00:00:00:00 17 00:00:00:00:00:00
   00:00:00:00:00:00 18 00:00:00:00:00:00
   00:00:00:00:00:00 19 00:00:00:00:00:00
   00:00:00:00:00:00 20 00:00:00:00:00:00
4
   00:00:00:00:00:00 21 00:00:00:00:00
   00:00:00:00:00:00 22 00:00:00:00:00
6
   00:00:00:00:00:00 23 00:00:00:00:00
7
8
   00:00:00:00:00:00 24 00:00:00:00:00
   00:00:00:00:00:00 25 00:00:00:00:00
10 00:00:00:00:00 26 00:00:00:00:00
11 00:00:00:00:00 27 00:00:00:00:00
12 00:00:00:00:00 28 00:00:00:00:00
13 00:00:00:00:00 29 00:00:00:00:00
14 00:00:00:00:00:00 30 00:00:00:00:00:00
15 00:00:00:00:00:00 31 00:00:00:00:00:00
16 00:00:00:00:00:00 32 00:00:00:00:00:00
```

#### 1.151 wlan display

Description

Use this command to show wlan configuration setting including ESSID and channel ID.

Command Syntax

wlan display

#### Output field description

```
sys>wlan display
essid
              = 1234
chid
               = 3
hide essid
                = No
RTS threshold
                   = 0
Frag threshold
                  = 2432
WEP key type
                   = none
WEP default key
                   = 0
MAC filter active
                  = 0
                  = Allow
MAC filter action
```

index MAC address index MAC address

```
00:00:00:00:00:00 17 00:00:00:00:00:00
2
   00:00:00:00:00:00 18 00:00:00:00:00:00
   00:00:00:00:00:00 19 00:00:00:00:00:00
   00:00:00:00:00:00 20 00:00:00:00:00:00
   00:00:00:00:00:00 21 00:00:00:00:00
   00:00:00:00:00:00 22 00:00:00:00:00
   00:00:00:00:00:00 23 00:00:00:00:00:00
   00:00:00:00:00:00 24 00:00:00:00:00
   00:00:00:00:00:00 25 00:00:00:00:00
10 00:00:00:00:00:00 26 00:00:00:00:00
11 00:00:00:00:00:00 27 00:00:00:00:00
12 00:00:00:00:00:00 28 00:00:00:00:00:00
13 00:00:00:00:00:00 29 00:00:00:00:00
14 00:00:00:00:00:00 30 00:00:00:00:00:00
15 00:00:00:00:00:00 31 00:00:00:00:00
16 00:00:00:00:00:00 32 00:00:00:00:00:00
```

## 1.152 wlan load

Use this command to load the configuration from the last saving session. Description

Command Syntax wlan load

## 1.153 wlan save

Use this command to save the configuration and use wlan display to check if the configuration saved takes effect. Description

Command Syntax wlan save

#### Description

Use this command to reset the configuration. When the command is typed, the current configuration will be reset to zero.

#### Command Syntax

wlan clear

#### Output field description

sys>wlan clear sys>wlan display essid = chid = 0

chid = 0
hide essid = No
RTS threshold = 0
Frag threshold = 0
WEP key type = none
WEP default key = 0
MAC filter active = 0
MAC filter action = Allow

index MAC address index MAC address

00:00:00:00:00:00 17 00:00:00:00:00:00 2 00:00:00:00:00:00 18 00:00:00:00:00:00 3 00:00:00:00:00:00 19 00:00:00:00:00:00 00:00:00:00:00:00 20 00:00:00:00:00:00 00:00:00:00:00:00 21 00:00:00:00:00 00:00:00:00:00:00 22 00:00:00:00:00:00 6 00:00:00:00:00:00 23 00:00:00:00:00:00 00:00:00:00:00:00 24 00:00:00:00:00 00:00:00:00:00:00 25 00:00:00:00:00 10 00:00:00:00:00:00 26 00:00:00:00:00 11 00:00:00:00:00:00 27 00:00:00:00:00 12 00:00:00:00:00:00 28 00:00:00:00:00:00 13 00:00:00:00:00:00 29 00:00:00:00:00:00 14 00:00:00:00:00:00 30 00:00:00:00:00:00 15 00:00:00:00:00:00 31 00:00:00:00:00 16 00:00:00:00:00:00 32 00:00:00:00:00:00

## 1.155 wlan filter

Description Us

Use this command to activate the filter set feature on

WLAN.

Command Syntax

wlan filter <parameters>

**Parameters** 

Name	Description		
<incoming outgoing></incoming outgoing>	Set to filter incoming or outgoing		
	packets		
<generic></generic>	Use the generic filter mode		
[set#1]	Use filter set 1		
[set#2]	Use filter set 2		
[set#3]	Use filter set 3		
[set#4]	Use filter set 4		

Output field description

sys>wlan filter

# 1.156 wlan debug

Description

Use this command to set the debug parameter in order to

show the debug error message.

Command Syntax

wlan debug <parameters>

**Parameters** 

	Name	Description
(	)	Turn off the debug error message
•		Turn on and display the debug error message

## 1.157 wlan version

**Description** Use this command to show the firmware version.

Command Syntax wlan version

Output field description sys>wlan version

Intersil primary firmware version: 0.8.3 Intersil secondary firmware version: 0.8.3 Intersil AP firmware version: 1.2.1

## 1.158 wlan reset

**Description** Use this command to reset the WLAN

Command Syntax wlan reset

#### 1.159 wlan association

Description Use this command to show the list of clients join this

service.

Command Syntax wlan associaton

Output field description sys>wlan association

[NUM] MAC Address Association time

[001] 00:02:A3:12:34:45 20:00:17 2003/06/25 1

Total: 1

## 1.160 wlan scan

#### Description

Use this command to scan for the available channel on the network. This command also recommend available channel in the network.

### Command Syntax

wlan scan

### Output field description

sys>wlan sca	n		
Channel	Activity	Count	Signal
1	0	2	45
2	1	4	46
3	1	5	55
4	1	4	46
5	0	1	44
6	1	4	52
7	1	5	55
8	0	3	52
9	1	5	53
10	0	3	47
11	1	5	48

Recommend Channel: 5

## 1.161 wlan channel

**Description** Use this command to set or control the WLAN channel

data

**Parameters** 

Name	Description
On	Open WLAN data TX/RX
Off	Close WLAN data TX/RX